

P ***Hydrastis canadensis***

Common Name(s)

Goldenseal

How Used

M

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	(+)-CANADINE	Rhizome	--	--		
3	(-)-ALPHA-HYDRASTINE	Plant	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.	
1	(-)-CANADINE	Plant	--	--		
0	5-HYDROXYTETRAHYDROBERBERINE	Plant	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	
0	ALKALOIDS	Rhizome	18600	33800	1.3660977557517635	
0	ALKALOIDS	Root	25000	42900	1.175183737997903	
3	ALPHA-HYDRASTINE	Root	--	--		
5	ALUMINUM	Root	90	325	-0.1380992344029949	
112	ASCORBIC-ACID	Root	189	681	-0.25668368648487233	

	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	ASH	Root	18282	66000	-0.04451203912952142		
126	BERBERASTINE	Plant	--	--			
126	BERBERASTINE	Rhizome	20000	30000			
130	BERBERINE	Root	1385	60000	0.90147316172384		
130	BERBERINE	Plant	--	--			
130	BERBERINE	Rhizome	--	50000	-1.507556722888818		
130	BERBERINE	Shoot	--	--			
53	BETA-CAROTENE	Root	0.8	3	-0.4172395028869181		
0	BETA-HYDRASTINE	Rhizome	--	4833.3			
28	CALCIUM	Root	823	2970	-0.48547206183585695		
0	CANADALINE	Rhizome	--	--			
0	CANADALINE	Root	450	450			
1	CANADINE	Root	693	2500			
1	CANADINE	Plant	--	--			
0	CANDALINE	Plant	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.	
0	CARBOHYDRATES	Root	227971	823000	-0.09032909443647177		
77	CHLOROGENIC-ACID	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
77	CHLOROGENIC-ACID	Plant	--	--		
24	CHROMIUM	Root	0.3	0.9	-0.3805576061834531	
2	COBALT	Root	4.2	15.3	-0.21312131765045375	
2	CORYPALMINE	Root	2	2		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	D-FRUCTOSE	Plant	--	--		
0	D-GALACTOSE	Plant	--	--		
1	D-GLUCOSE	Plant	--	--		
0	FAT	Root	6371	23000	0.004007840419506115	
15	FIBER	Root	123000	123000	0.774806535401351	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	FIBER(CRUDE)	Root	--	123000	0.3467683939173794	
0	FIBER(DIETARY)	Root	--	392000	-0.07020673820443385	
0	HYDRASTIDINE	Root	91	91		Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
0	HYDRASTIDINE	Rhizome	--	118.3		
16	HYDRASTINE	Root	4155	40000		
16	HYDRASTINE	Rhizome	--	--		
16	HYDRASTINE	Plant	15000	40000		
5	HYDRASTININE	Plant	--	--		
0	HYDRASTIS-CANADENSIS-ALKALOID-10	Rhizome	--	28		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	HYDRASTIS-CANADENSIS-ALKALOID-11	Rhizome	--	8.3		
8	INOSITOL	Plant	--	--		
8	INOSITOL	Leaf	--	--		
8	INOSITOL	Root	--	--		
6	IRON	Root	17	61	-0.3530329853437246	
0	ISO-HYDRASTIDINE	Rhizome	--	92		
13	JATRORRHIZINE	Root	--	--		
0	KILOCALORIES	Root	2900	2900	-1.027344190173421	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
65	MAGNESIUM	Root	814	2940	0.2013772114780043	
14	MANGANESE	Root	2.4	8.5	-0.44437545653348504	
0	MECONINE	Plant	--	--		
0	MECONINE	Root	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
39	NIACIN	Root	17	62	0.3408639915778749	
4	PHOSPHORUS	Root	341	1230	-0.401977727255847	
14	POTASSIUM	Root	1712	6180	-0.7028558317567325	
0	PROTEIN	Root	31024	112000	-0.07201685308276887	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	RESIN	Root		--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
10	RETICULINE	Plant		--	--	
15	RIBOFLAVIN	Root		0.6	2	-0.45399811156287
60	SELENIUM	Root		0.3	1	-0.29131634494743897
4	SILICON	Root		8	28.7	-0.21106579728908464
1	SODIUM	Root		--	--	
5	STARCH	Root		27700	180000	-0.5678127219668201
14	SUCROSE	Plant		--	--	
0	SUGARS	Root		19390	70000	-0.327950642411638
31	THIAMIN	Root		--	2.6	-0.3624549785956239
0	THIAMINE	Root		0.7	2.6	-0.3397593870321354
4	TIN	Root		2.6	9.3	-0.7304757236248677
0	WATER	Root		--	723000	-0.30268497945950484
0	XANTHOPUCINE	Plant		--	--	
77	ZINC	Root		0.4	1.6	-0.9888698445176951